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REPORT NO. 9

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Cotton Fiber and Processing Test Results

U.S. DEPOSITORY

CROP of 1973

Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 December 21, 1973

This is the ninth of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1973

Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report fibers from Southwest short staple samples tested, to date, are stronger than through the same period a year ago. Yarns spun from these samples have lower appearance grades. Yarn imperfections are fewer than last season. Average spinning potential yarn number is lower.

Averages for all medium staple samples tested through December 14 show longer, and coarser fibers than a year ago. Yarns spun from these samples show lower appearance grades. Imperfections were greater in samples tested to date. Spinning potential yarn number is lower than a year ago.

Southeastern medium staple samples tested show coarser and slightly weaker fibers this season. Shirley Analyzer nonlint content is higher. Yarn imperfection counts are higher than a year ago at this time. Average spinning potential yarn number is lower.

South Central medium staple samples tested, to date, show longer, coarser and slightly weaker fibers. Yarns spun from these samples show approximately the same processing test results as a year ago.

Southwest medium staple samples have about the same fiber qualities as measured through this date last year. Picker and card waste is less. Yarn shein strength is weaker than a year ago. Yarn appearance grades are lower with more imperfections showing up this season. Average spinning potential number is lower.

Medium staple samples from the West show fibers to be longer, more uniform, coarser and considerably stronger than last season. Yarns spun from these samples are stronger. Appearance grades are lower, however, than a year ago.

Averages for all long staple samples tested show coarser and weaker fibers at zero gage strength. Yarns spun from these samples have higher appearance index number for both carded and combed yarns. Imperfections are fewer than last year. Average spinning potential yarn number is lower.

Southeast long staple samples are coarser and weaker than a year ago. Yarn strength is weaker. Yarn appearance index numbers are higher this season. Yarn imperfections are fewer. Average spinning potential number is lower.

South Central long staple samples tested through this period are shorter, coarser and weaker than a year ago. Comber waste is higher this season. Yarn strength is weaker. Appearance grades are higher and the imperfection count is lower. Spinning potential number is lower.

Long staple samples tested from the West are coarser and stronger than last season. Comber waste is less. Yarns spun from these samples are stronger and have higher appearance index number. Yarn imperfections are less than last season. Average spinning potential yarn number is higher.

Extra long staple, American Pima, samples from the West are coarser than last season. Yarn appearance grades are higher and imperfection count is less this season.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 14, 1973 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Short Staple:												
Southwest												
1972	27	0.97	45	4.4	83	20	3.2	6.1	94	119	24	47
1973	37	0.97	46	4.5	84	21	3.4	6.5	93	109	18	43
Medium Staple:												
Southeast												
1972	57	1.07	45	4.3	83	23	2.9	6.2	104	103	16	66
1973	42	1.08	46	4.5	82	22	3.6	6.2	103	106	22	62
South Central												
1972	146	1.08	46	4.3	83	23	2.8	6.2	104	109	19	64
1973	136	1.10	45	4.5	82	22	3.1	5.8	102	108	19	62
Southwest												
1972	32	1.07	45	4.4	83	22	3.2	6.2	102	119	23	62
1973	37	1.07	45	4.4	82	22	2.8	5.7	97	100	25	57
West												
1972	52	1.09	45	4.4	90	24	2.6	5.4	110	121	17	66
1973	48	1.13	47	4.6	94	26	2.2	5.4	119	106	18	68
U.S. Average												
1972	287	1.08	45	4.3	85	23	2.8	5.9	105	113	18	65
1973	263	1.10	45	4.5	84	23	3.0	5.8	103	106	20	62
Significant difference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 14, 1973 1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results: Length: Span	Length: Unif	Mike	Strength: Zero gage	Strength: 1/8" gage	SA Non-lint	Processing Test Results: P&C Waste	Comber Waste	Yarn Quality: Strength: carded	Strength: combed	Appearance: carded	Appearance: combed	Imprfctns: card	Imprfctns: comb	SPY
	No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.
										22s Carded & Combed Yarn						
Long Staple:																
Southeast																
1972	17	1.12	44	4.3	85	24	3.6	8.4	16.9	107	124	101	116	24	9	69
1973	16	1.12	45	4.6	82	23	3.9	8.7	16.9	104	120	117	124	15	7	66
South Central																
1972	4	1.16	44	4.0	88	24	4.2	8.8	16.0	116	131	100	110	20	11	75
1973	6	1.14	44	4.3	86	24	3.8	8.8	17.3	108	126	117	127	19	8	64
West																
1972	15	1.17	44	3.6	91	25	2.5	7.2	15.6	126	145	91	100	26	13	86
1973	11	1.16	45	3.8	92	27	2.4	7.2	14.9	136	152	99	109	18	10	92
U. S. Average																
1972	36	1.14	44	4.0	88	24	3.2	8.0	16.3	116	133	97	109	24	11	77
1973	33	1.14	45	4.3	86	24	3.4	8.2	16.3	115	132	111	120	16	8	74
			Array										50's Combed Yarn			
								American Pima								
Extra Long Staple:																
West																
1972	14	1.45	32	3.6	98	32	2.6	7.7	17.7		63		111		3	
1973	8	1.46	31	3.9	99	33	2.8	7.8	18.0		65		122		1	
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	4(22s) 2(50s)	5	5	2	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
				Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code		Stple	2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
			32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA																							
CENTRAL TEXAS																							
AVALON								LANKART LX 571							99 PERCENT								
3 LM	51	31		1.04	46	5.0	84	21	6.5	4.3	3	3	6.9	296	96	7.5	6.4	120	110	19	16	48
NORTHWEST TEXAS																							
ANSON								LANKART 611							100 PERCENT								
2 SLM	41	31		0.96	46	4.2	78	20	8.2	2.8	1	3	6.8 1/	294	89	8.7	7.2	120	90	21	16	46
BULA								RILCOT 90							80 PERCENT								
2 MID LT SP	32	29		0.93	45	4.0	86	22	6.9	2.9	1	3	6.0 1/	301	93	8.4	6.8	130	120	18	11	38
BURKBURNETT								LANKART LX 571							100 PERCENT								
1 SLM LT SP	42	32		0.99	45	4.7	79	21	7.0	4.0	2	3	6.0	279	88	7.6	6.8	120	90	29	25	41
EDMONSON								STRIPPER 31							95 PERCENT								
1 MID	31	29		0.87	48	4.8	86	20	6.4	2.3	1	3	6.8	261	90	7.5	5.0	120	100	9	8	32
ELDORADO								LANKART 57							85 PERCENT								
2 SGO	61	2/31		0.98	45	4.2	79	20	7.6	5.4	4	4	8.6	275	84	8.0	7.0	120	100	26	24	47
HALE CENTER								PAYMASTER 18							100 PERCENT								
1 MID	31	29		0.87	48	4.9	81	17	6.9	2.4	1	3	6.6 1/	258	77	7.3	6.2	130	110	8	8	33
HART								STRIPPER 31							90 PERCENT								
1 MID LT SP	32	30		0.90	46	4.3	80	19	6.5	4.4	2	4	6.4 1/	273	78	7.5	5.8	130	110	14	16	34
RALLS								PAYMASTER 909							70 PERCENT								
1 SLM	41	31		.99	45	4.4	83	21	7.5	2.8	1	3	6.3	317	102	8.7	7.3	120	90	21	18	56

1/ Cotton stuck to processing rolls
2/ Reduced from 51 because of bark

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
						Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
No	Grade Name & Code	Stple	2.5% span	Unif																	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA--(Continued)																					
NORTHWEST TEXAS--(Continued)																					
							PAYMASTER 202						100 PERCENT								
SEAGRAVES 2 MID	31	30	0.89	45	3.9	89	21	6.2	3.1	1	3	5.9	294	92	7.5	6.3	120	110	17	17	38
							LANKART LX 571						100 PERCENT								
STAMFORD 2 SLM	41	32	0.99	47	4.9	83	22	6.5	2.7	2	3	6.8 1/	287	89	7.8	6.6	120	110	9	9	46
							STRIPPER 31						90 PERCENT								
TULIA 1 MID LT SP	32	28	0.87	49	5.0	85	19	6.5	2.8	2	4	7.4 1/	261	75	7.3	5.7	120	110	14	10	31

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
CUBA							DIXIE KING II						80 PERCENT								
3 LM	51	34	1.10	45	4.6	78	19	7.8	3.3	3	3	6.0	91	26	6.3	4.3	100	90	8	7	60
PRATTVILLE							COKER 417						100 PERCENT								
3 SLM	41	35	1.10	46	4.1	88	24	6.1	1.9	2	3	4.8	115	38	6.4	4.7	100	80	16	16	68
GEORGIA																					
BOSTWICK							DIXIE KING II						100 PERCENT								
3 SLM LT SP	42	33	1.01	47	4.8	83	21	6.0	3.5	3	3	6.4	91	26	5.8	3.6	120	90	13	8	49
TENNILLE							COKER 201						90 PERCENT								
3 SLM LT SP	42	35	1.10	46	4.1	82	21	6.4	4.7	3	3	5.7	99	31	5.9	4.4	90	70	31	27	60
NORTH CAROLINA																					
LAURINBURG							MCNAIR 511						100 PERCENT								
3 LM	51	35	1.07	47	4.4	80	22	7.0	6.3	3	2	7.5	106	35	6.6	4.8	80	70	37	22	62
SOUTH CAROLINA																					
CALHOUN FALLS							COKER 201						100 PERCENT								
3 LM	51	34	1.09	48	4.3	81	22	6.4	5.0	3	2	7.3	102	32	6.5	4.3	110	90	20	13	62
SOUTH CENTRAL AREA																					
ARKANSAS																					
ALTHEIMER							DELTAPINE 16						100 PERCENT								
3 SLM	41	35	1.09	45	4.0	82	22	8.6	3.0	2	2	5.3	111	35	6.9	5.2	120	70	20	17	69
BAY							STONEVILLE 213						95 PERCENT								
3 SLM	41	34	1.06	43	4.2	80	20	7.4	3.5	2	2	6.0	95	27	6.6	4.3	90	70	17	13	53
CRAWFORDVILLE							DELTAPINE 16						93 PERCENT								
3 LM	51	34	1.08	43	3.5	80	21	8.3	4.8	2	1	6.6	101	31	6.8	4.5	100	80	19	13	58
LEACHVILLE							BRYCOT #4						100 PERCENT								
3 SLM	41	34	1.04	42	3.5	83	20	6.4	4.0	2	2	6.3	95	29	6.2	4.5	90	60	22	18	52
LEACHVILLE							STONEVILLE 213						100 PERCENT								
3 SLM	41	35	1.06	44	3.8	79	21	7.4	3.0	2	2	5.5	97	29	6.4	4.7	100	70	23	21	55

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA--(Continued)																					
ARKANSAS--(Continued)																					
OSCEOLA							STONEVILLE 7A						100 PERCENT								
3 SLM	41	34	1.09	43	4.3	85	20	5.9	3.6	2	2	7.2	90	23	5.6	3.7	100	70	18	16	50
VICTORIA							STONEVILLE 213						100 PERCENT								
3 LM	51	35	1.09	43	2.9	81	23	7.4	5.7	2	2	8.9	107	34	7.3	5.2	70	60	39	33	67
WILSON							DELTAPINE 16						100 PERCENT								
3 SLM	41	35	1.12	44	3.4	80	22	8.3	3.8	1	2	5.7	114	37	7.5	5.3	90	80	18	12	70
LOUISIANA																					
BUNKIE							DELTAPINE 45A						80 PERCENT								
3 LM	51	34	1.08	45	4.5	75	19	7.0	3.1	4	3	7.0	84	25	5.9	4.0	100	80	14	13	56
MISSISSIPPI																					
ARCOLE							DELTAPINE 16						100 PERCENT								
3 SLM	41	36	1.14	44	4.3	79	22	8.0	2.3	2	2	4.8	110	37	7.2	5.2	100	80	10	9	71
BELZONI							DELTAPINE 16						100 PERCENT								
3 LM	51	34	1.12	42	3.8	77	21	8.3	3.8	3	2	6.1	106	35	6.9	5.1	110	80	17	11	71
EDWARDS							STONEVILLE 213						85 PERCENT								
3 LM	51	34	1.05	46	4.8	78	21	6.9	2.7	3	3	7.4	87	24	6.0	3.8	100	80	19	14	53
FOREST							DELTAPINE 16						95 PERCENT								
3 SLM LT SP	42	34	1.09	43	4.4	79	21	7.9	2.8	3	3	5.9	91	27	6.5	4.3	100	70	11	8	54
GREENWOOD							STONEVILLE 213						100 PERCENT								
3 LM	51	34	1.08	44	3.8	82	22	7.0	3.5	3	2	6.1	104	32	6.8	4.7	100	80	23	16	61
GUNNISON							DELTAPINE 16						100 PERCENT								
3 SLM	41	35	1.15	44	4.2	77	22	8.2	2.5	2	2	5.1	104	34	7.1	5.0	100	70	19	11	67
INDIANOLA							DELTAPINE 16						100 PERCENT								
3 LM	51	34	1.06	41	3.4	82	21	7.3	4.8	3	3	7.5	96	30	6.3	4.5	100	70	19	14	59
INDIANOLA							STONEVILLE 213						100 PERCENT								
3 SLM	41	34	1.09	46	5.1	83	21	7.0	2.5	2	3	5.2	100	31	6.6	4.5	110	90	13	9	59
LELAND							STONEVILLE 213						100 PERCENT								
3 LM	51	35	1.10	45	4.5	76	21	7.4	5.7	4	2	7.9	101	31	6.6	4.9	100	70	23	18	62
LYON							STONEVILLE 213						100 PERCENT								
3 LM	51	35	1.07	45	4.3	80	21	6.9	3.1	3	2	6.3	94	28	6.2	4.4	100	70	26	19	50

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA--(Continued)																					
MISSISSIPPI--(Continued)																					
MACON							DELTAPINE 16						95 PERCENT								
3	SLM	41	35	1.09	46	4.6	80	22	8.3	2.8	2	2	4.8	101	31	6.8	5.0	120	90	8	9	61
PANTHER BURN							DELTAPINE 16						100 PERCENT								
2	LM	51	35	1.15	45	4.1	78	22	8.3	5.1	2	2	6.4	108	36	7.3	5.2	100	70	22	19	67
MISSOURI																					
PORTAGEVILLE							STONEVILLE 213						95 PERCENT								
3	SLM	41	34	1.05	46	4.9	80	20	6.8	2.3	2	3	5.0	92	27	6.7	4.5	110	80	11	10	50
SENATH							AUBURN M						100 PERCENT								
3	SLM LT SP	42	34	1.05	42	3.7	77	19	7.0	3.0	2	3	6.5	86	25	6.6	4.3	90	70	17	14	51
STEELE							STONEVILLE 213						95 PERCENT								
3	SLM	41	35	1.08	46	4.6	80	21	7.3	3.3	1	2	5.1	99	30	6.3	4.6	100	90	14	8	59
SOUTHWEST AREA																					
CENTRAL TEXAS																					
WHITNEY							TAMCOT SP37						100 PERCENT								
3	SGO	61	32	1.02	43	3.6	82	20	6.3	5.3	4	3	9.0	80	22	5.2	3.7	90	60	29	20	40
NORTHWEST TEXAS																					
BROWNFIELD							DELTAPINE SR-1						70 PERCENT								
2	MID	31	31	0.99	46	4.5	82	21	6.6	2.0	1	3	4.8	81	22	5.8	5.0	120	90	16	14	35
LUBBOCK							COKER 5110						100 PERCENT								
2	SLM	41	34	1.07	44	4.3	82	23	6.9	3.1	1	3	6.1 1/	102	33	6.7	4.7	90	70	27	20	59
RAYLAND							LOCKETT 4789A						100 PERCENT								
1	MID LT SP	32	32	1.02	47	4.6	88	23	6.0	2.5	2	3	6.5	97	29	5.8	4.6	100	70	14	12	48
ROPESVILLE							LOCKETT 4789A						100 PERCENT								
1	MID	31	32	1.01	47	4.0	85	23	6.7	2.0	0	3	4.5	107	34	7.0	5.1	110	90	17	11	61
WELCH							PAYMASTER 111A						75 PERCENT								
1	MID	31	32	0.97	46	4.3	78	21	6.9	2.4	1	3	5.5	79	24	5.8	4.8	100	90	20	13	38

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST	AREA																				
ARIZONA BUCKEYE 2 MID	31	35	1.09	45	4.8	91	STONEVILLE 213 24	5.8	1.4	0	3	5.3 1/	100 PERCENT 102	29	5.7	4.1	120	90	5	6	50
CALIFORNIA BAKERSFIELD 3 SLM	41	36	1.11	45	4.3	91	ACALA SJ-1 25	6.4	2.3	1	3	5.3	100 PERCENT 116	40	6.0	4.4	90	70	16	15	62
BAKERSFIELD 3 SLM	41	35	1.09	44	3.5	89	ACALA SJ-2 26	6.1	2.7	1	3	5.2 1/	100 PERCENT 118	40	6.0	4.5	80	70	23	12	71
BRAWLEY 2 MID	31	35	1.12	45	4.9	90	DELTAPINE 16 25	6.3	2.1	0	2	6.6 1/	100 PERCENT 101	30	5.8	4.0	100	80	19	15	55
BUTTONWILLOW 3 MID	31	36	1.10	45	4.5	93	ACALA SJ-1 26	5.4	1.8	0	3	4.5	100 PERCENT 120	40	5.8	4.5	110	80	11	10	65
CHOWCHILLA 2 SLM	41	36	1.11	48	4.5	98	ACALA SJ-1 27	5.5	2.0	1	3	5.5	99 PERCENT 126	42	5.8	4.5	100	90	13	9	74
COALINGA 2 MID	31	35	1.13	48	4.6	94	ACALA SJ-1 26	5.6	1.5	1	3	4.7	100 PERCENT 116	40	5.9	4.4	110	90	8	8	75
DOS PALOS 2 SLM	41	36	1.13	47	4.2	96	ACALA SJ-1 26	6.0	1.8	2	2	4.7	100 PERCENT 129	45	6.0	4.3	110	80	10	7	84
HANFORD 2 SLM	41	35	1.11	45	4.3	98	ACALA SJ-1 25	5.4	1.8	2	3	5.3 1/	100 PERCENT 120	40	5.6	4.3	90	70	13	9	73
KERMAN 2 SLM	41	36	1.11	48	4.3	97	ACALA SJ-1 27	5.5	2.3	1	3	4.8	96 PERCENT 125	44	6.2	4.6	100	80	10	8	79
MENDOTA 2 SLM PLUS	40	36	1.14	46	4.4	98	ACALA SJ-1 27	5.5	1.6	1	3	5.9	100 PERCENT 131	45	6.3	4.8	100	80	14	12	80
TULARE 3 SLM	41	36	1.09	43	3.8	95	ACALA SJ-1 26	5.3	2.5	2	2	4.9 1/	100 PERCENT 124	40	5.9	4.4	100	70	11	7	70

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST AREA--(Continued)																					
WEST TEXAS																					
PECOS							DELTAPINE 16							100 PERCENT 2/							
2 MID	31	34	1.09	42	3.1	80	23	8.8	3.0	0	2	4.6 1/	110	34	7.3	5.4	70	70	20	18	68
PECOS							STONEVILLE 213							100 PERCENT 2/							
2 MID	31	34	1.08	44	3.9	79	21	7.2	2.7	0	3	5.2 1/	105	33	7.3	5.3	80	70	13	9	60

1/ Cotton stuck to processing rolls
2/ 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
BELLEVILLE							COKER 310						80 PERCENT								
3 LM	51	34	1.09	46	4.3	76	21	8.2	3.7	2	2	10.6	98	31	6.6	5.2	110	90	10	9	58
												* 16.4	114	38	7.1	5.3	120	100	5	3	
GERALDINE							COKER 310						100 PERCENT								
3 SLM	41	33	1.11	43	4.7	83	22	6.8	2.4	2	3	7.4	99	27	6.1	4.0	120	90	8	6	55
												* 17.8	115	38	6.7	4.6	120	110	5	4	
GEORGIA																					
MADISON							COKER 310						100 PERCENT								
3 SLM LT SP	42	34	1.13	44	4.5	82	23	6.6	4.0	3	3	9.4	97	28	6.1	4.5	110	70	15	10	54
												* 18.1	116	39	6.6	4.8	120	100	7	6	
NORTH CAROLINA																					
MORVEN							COKER 310						90 PERCENT								
2 SLM	41	35	1.12	46	4.9	84	23	6.4	2.6	2	3	7.8	105	35	6.2	4.2	130	100	7	6	72
												* 15.8	124	44	6.2	5.3	130	110	2	2	
SOUTH CAROLINA																					
HARTSVILLE							COKER 310						100 PERCENT								
3 LM	51	35	1.16	44	4.2	78	23	6.6	5.2	3	3	9.2	103	34	6.4	5.2	100	80	10	9	68
												* 17.4	121	42	6.8	5.7	100	90	9	4	
SOUTH CENTRAL AREA																					
TENNESSEE																					
TRENTON							COKER 310						80 PERCENT								
3 SLM	41	34	1.08	44	4.3	83	23	7.1	2.7	2	2	8.7	95	27	6.2	4.1	120	90	11	6	54
												* 17.5	112	38	6.7	4.7	120	100	6	5	

* Comber Waste and Combed Yarn Data

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST		AREA																			
NEW MEXICO																					
ARTESIA							ACALA 1517-70							77 PERCENT							
3	MID	31 36	1.16	43	3.4	97	27	5.2	3.1	0	3	7.8	135	47	6.3	4.9	70	70	24	19	88
												* 16.2	155	56	6.6	5.3	90	80	14	11	
DEXTER							ACALA 1517-V							100 PERCENT 1/							
3	MID	31 37	1.22	43	3.0	88	27	6.0	2.5	1	3	7.6	139	50	6.6	5.0	80	70	18	15	103
												* 14.6	152	57	6.7	5.4	90	70	11	5	
WEST TEXAS																					
DELL CITY							ACALA 1517-C							80 PERCENT							
1	MID	31 36	1.11	46	3.9	88	26	6.2	2.7	0	3	8.1	123	43	6.4	4.8	110	90	17	12	80
												* 15.6	140	52	6.8	5.3	110	100	6	3	

1/ 100 percent selected for tests, less than 100 percent in the area

* Comber Waste and Combed Yarn Data

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Combed Yarns									
			Array Length		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns	
No	Grade Name & Code	Stple	UQL	CV		Zero Gage	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No
WEST		AREA																			
ARIZONA SAFFORD							PIMA S-4						80 PERCENT								
1	4	44	1.53	29	3.9	100	36	7.2	4.3	4	5	9.3	17.2	70	37	5.4	4.8	120	120	1	1
NEW MEXICO LAS CRUCES							PIMA S-4						80 PERCENT								
1	3	44	1.45	30	4.0	98	30	7.0	2.3	4	5	8.2	18.0	61	35	5.4	4.8	120	120	0	0
WEST TEXAS EL PASO							PIMA S-4						100 PERCENT								
2	3	44	1.41	34	3.7	102	33	7.3	3.2	4	5	7.8	18.8	63	34	5.2	4.6	130	120	1	0
EL PASO							PIMA S-4						100 PERCENT								
2	3	44	1.46	33	3.6	99	34	7.1	2.5	4	5	7.9	18.9	63	35	5.3	4.7	120	120	1	1
PECOS							PIMA S-4						100 PERCENT*								
2	3	44	1.46	30	3.8	97	31	8.1	2.2	4	6	7.9	17.4	66	36	5.5	4.8	120	120	1	0

* 100 percent selected for tests, less than 100 percent in the area

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